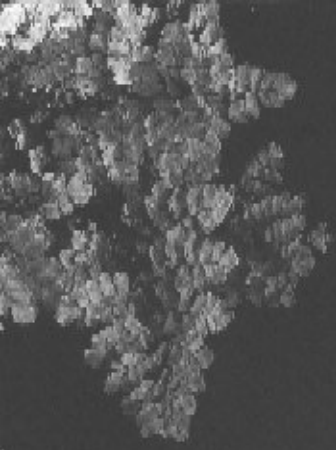


Panasonic

Integrated Telephone System

Model No. KX-TS208W

Pulse-or-tone dialing capability

Operating Instructions

2 LINE

PLEASE READ BEFORE USE AND SAVE.

Panasonic World Wide Web address: http://www.panasonic.com
for customers in the USA or Puerto Rico

Before Initial Use

Please read IMPORTANT SAFETY INSTRUCTIONS on page 39 before use. Read and understand all instructions.

Thank you for purchasing your new Panasonic integrated telephone.

Attach your purchase receipt here.

For your future reference

Serial No. _____
(found on the bottom of the unit)

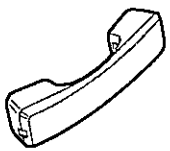
Date of purchase _____

Name and address of dealer _____

Accessories (included)

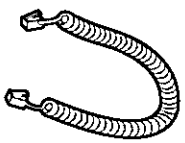
For extra orders, call 1-800-332-5368.

☐ Handset (p. 10)
Order No. PQJXC0102Z



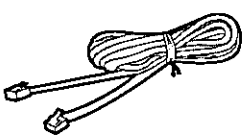
one

☐ Handset Cord (p. 10)
Order No. PQJA212M



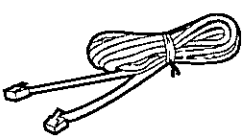
one

☐ 4-Wire Telephone Line Cord with Green Plugs (p. 10, 11, 12)



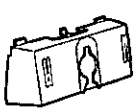
one

☐ 2-Wire Telephone Line Cord with Transparent Plugs (p. 11, 12)



one

☐ Wall Mounting Adaptor (p. 17)
Order No. PQKL10035Z2



one

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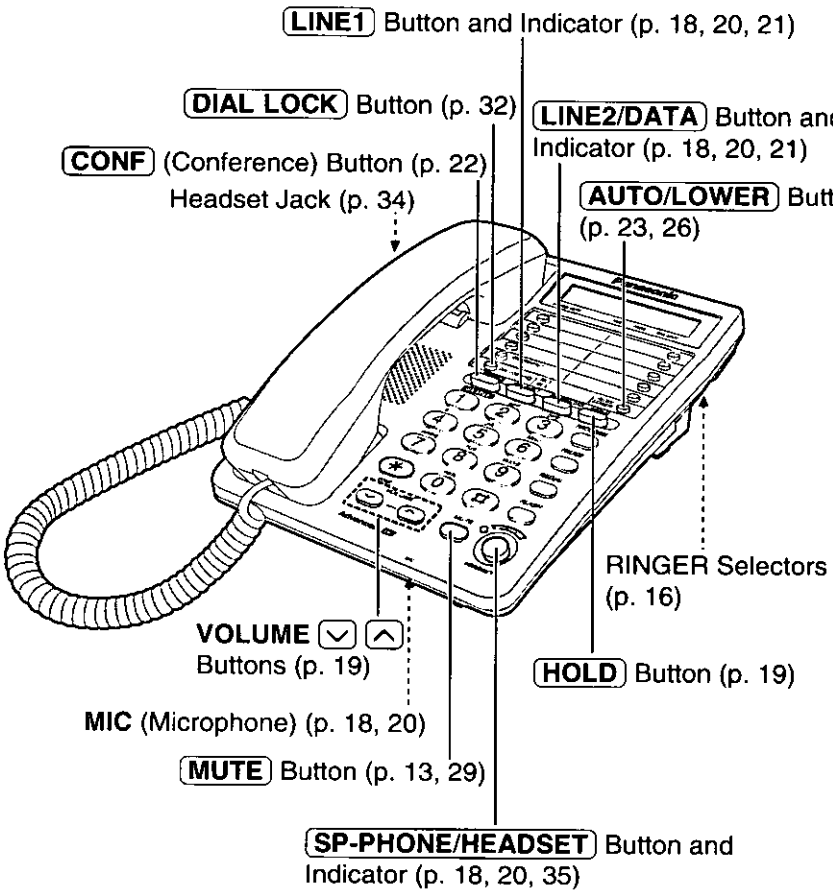
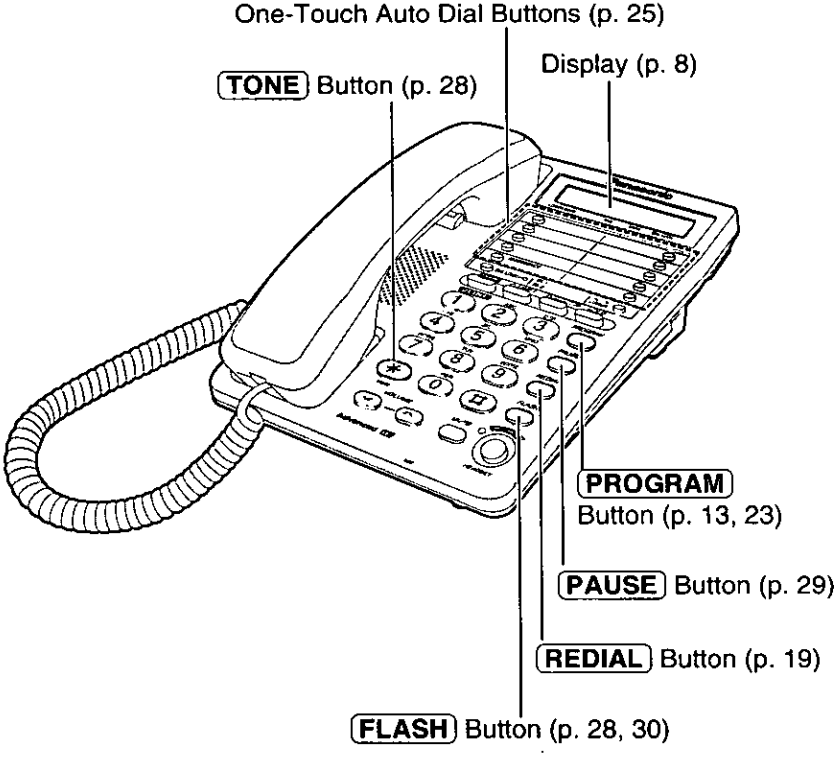
Location of Controls


LINE1 Button and Indicator (p. 18, 20, 21)
DIAL LOCK Button (p. 32)
LINE2/DATA Button and Indicator (p. 18, 20, 21)
CONF (Conference) Button (p. 22)
Headset Jack (p. 34)
AUTO/LOWER Button (p. 23, 26)
RINGER Selectors (p. 16)
VOLUME Buttons (p. 19)
HOLD Button (p. 19)
MIC (Microphone) (p. 18, 20)
MUTE Button (p. 13, 29)
SP-PHONE/HEADSET Button and Indicator (p. 18, 20, 35)


One-Touch Auto Dial Buttons (p. 25)
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TONE Button (p. 28)
PROGRAM Button (p. 13, 23)
PAUSE Button (p. 29)
REDIAL Button (p. 19)
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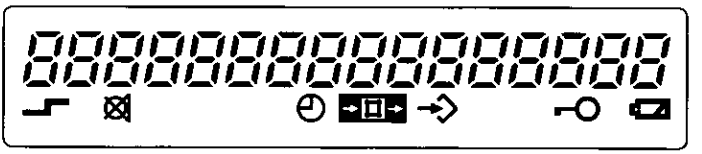
Display



(This display shows all of the possible configurations.)

12:00AM : In the standby mode, the display shows the current time. (Ex. 12:00AM)

02-14-30 : During a conversation, the call duration is displayed. (Ex. 2 hours, 14 minutes, 30 seconds)

F : [FLASH] was pressed.

P : [PAUSE] was pressed while storing phone numbers.

: [*] was pressed while dialing.

: [#] was pressed while dialing.

: [AUTO/LOWER] was pressed (p. 23, 26).

: [MUTE] was pressed during a conversation (p. 29).

: The unit is in the clock setting mode (p. 15).

: The unit is in the programming mode (p. 13).

: The dial lock mode is set. To cancel the mode, see page 32.

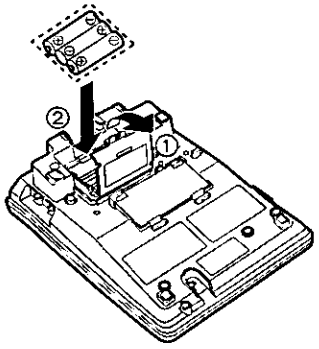
: This display flashes, when the battery power is low. To replace the batteries, see page 36.

Installing the Batteries

1 Press down in the direction of the arrow and open the cover.

2 Install the batteries in the proper order as shown, matching the correct polarity.

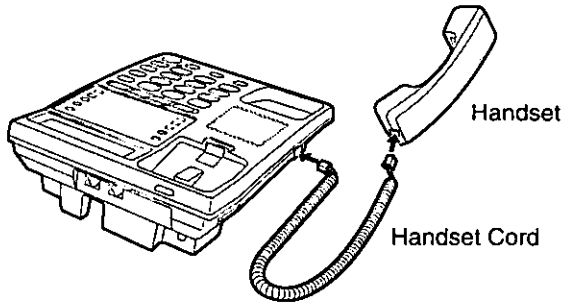
3 Close the battery cover.



- Batteries are not included in the unit.
- Install three high quality "AA" Alkaline or Manganese batteries. We recommend to use Alkaline batteries.
  Battery life is: —about six months in use of Alkaline batteries.
  —about three months in use of Manganese batteries.
  Battery life may depend on usage conditions and ambient temperature.
- Make sure to install the batteries for the following features to operate properly:
  —Display (p. 8)
  —Buttons' function when the handset is on the cradle
  —Speakerphone (p. 18, 20)
  —Programming (p. 13)

Connecting the Handset

Connect the handset as shown below.

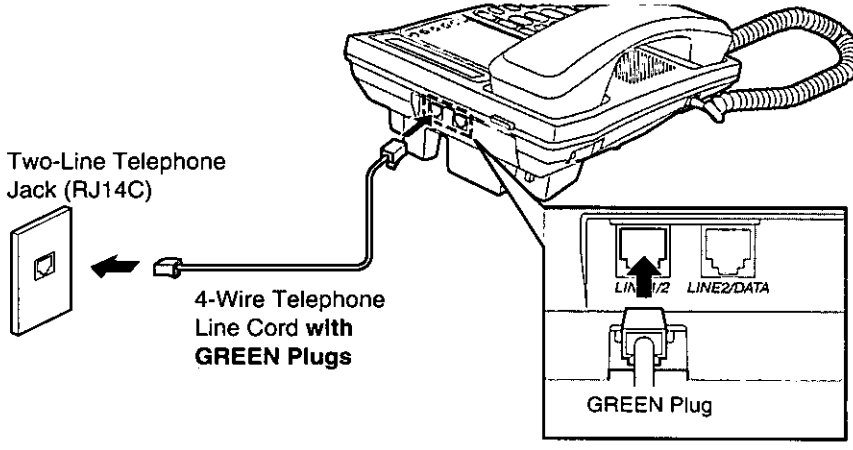


- Use only a Panasonic Handset for the KX-TS208W.

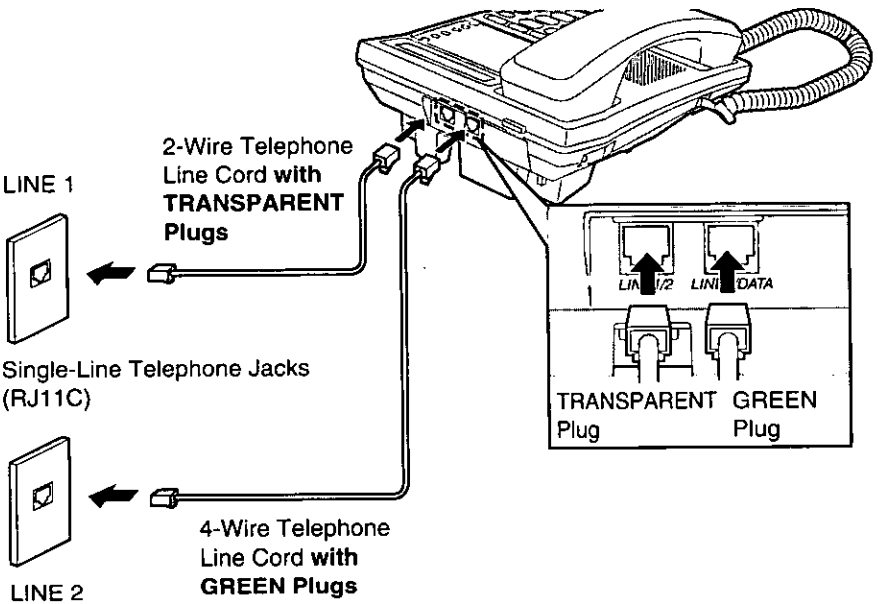
Connecting the Telephone Line Cord

Connect the telephone line cord(s) to the unit as follows.

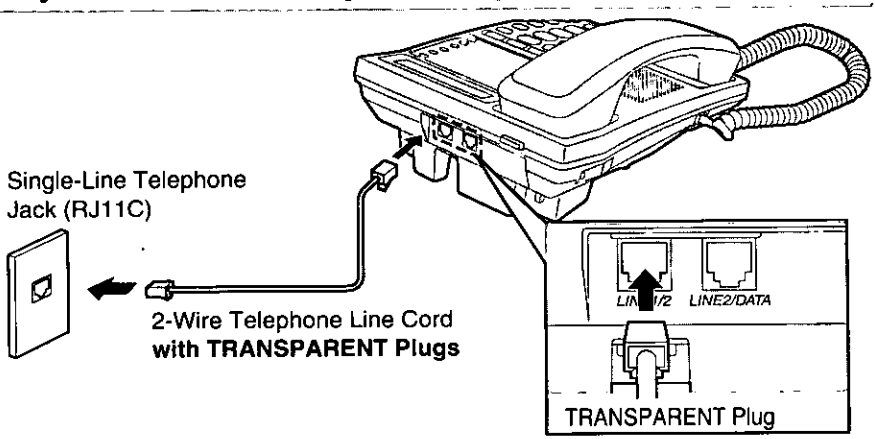
To connect a two-line telephone jack



To connect two single-line telephone jacks



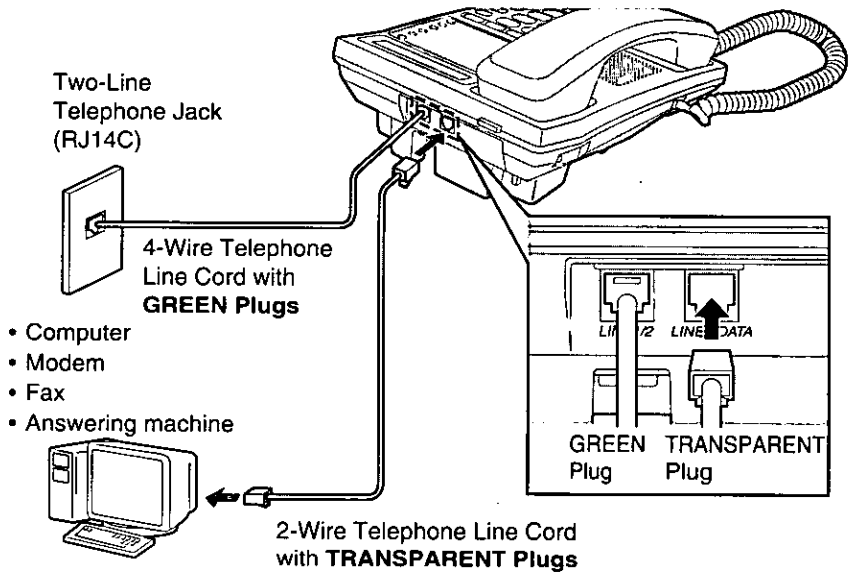
If you use the unit only as a single-line telephone



- For this connection, you can only use LINE 1.

Connecting a Communication Device

After connecting the telephone line cord to a two-line telephone jack, you can connect a communication device (computer, modem, fax, answering machine, etc.) through this unit using the LINE2/DATA jack.



- If the LINE2/DATA indicator lights red, the communication device is in use. Use LINE1 to make or answer other calls. Otherwise the communication device may not operate properly.

Programming Summary

You can program the following functions. The display shows the programming instructions. See the corresponding pages for function details.

Press [PROGRAM].

↓

Press [MUTE].

↓

- **To set the call restriction,** press [1]. (page 33)
- **To change the flash time,** press [2]. (page 30)
- **To select the dialing mode,** press [3]. (page 14)
- **To change the PIN code for the dial lock and call restriction,** press [5]. (page 31)
- **To adjust the time,** press [6]. (page 15)
- **To change the LCD contrast setting,** press [7]. (page 16)

↓

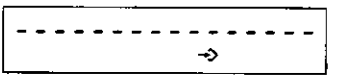
Press [PROGRAM] to store the setting.

- You can exit the programming mode any time by pressing [PROGRAM].
- If you do not press any buttons for 60 seconds, the unit will return to the standby mode.

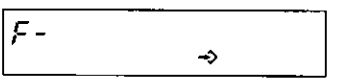
Dialing Mode

You can select the dialing mode by programming. If you have touch tone service, set to "Tone". If rotary or pulse service is used, set to "Pulse". Your phone comes from the factory set to "Tone".

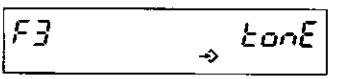
1 Press **PROGRAM**.



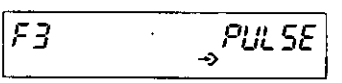
2 Press **MUTE**.



3 Press 3.
- The current setting is displayed.



4 To select "Pulse", press 2.
OR
To select "Tone", press 1.

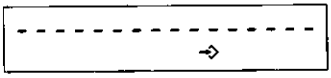


5 Press **PROGRAM**.
- A long beep sounds.
- The unit will return to the standby mode.

Time Adjustment

You can select AM/PM or military time by programming.

1 Press **PROGRAM**.

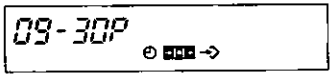


2 Press **MUTE**.

3 Press 6.

4 Enter the current time (hour and minute) using a 4-digit number.
(Ex. To set 9:30, enter "0930".)

5 Press # to select AM, PM or military time.
(Ex. You select PM.)



AM/PM	Military Time
12:00AM–11:59AM	0:00–11:59
12:00PM–11:59PM	12:00–23:59

- Each time you press #, the selection will change on the display.

6 Press **PROGRAM**.

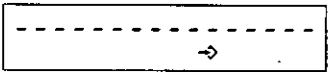
- A long beep sounds.
- The clock starts working. "-" flashes on the display.
- If an alarm sound is heard when entering the time and pressing **PROGRAM**, the time entered are not correct. Enter the correct time and press **PROGRAM**.
- The unit will return to the standby mode.

If the batteries installed in the unit have expired, the time will be shown as "12-00" and "🕘" will flash. Readjust the time.

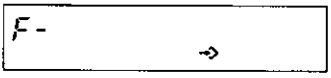
LCD Contrast

You can select the LCD contrast level from 1 to 4 by programming. Your phone comes from the factory set to 3.

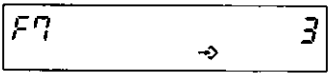
1 Press [PROGRAM].



2 Press [MUTE].



3 Press [7].
- The current setting is displayed.

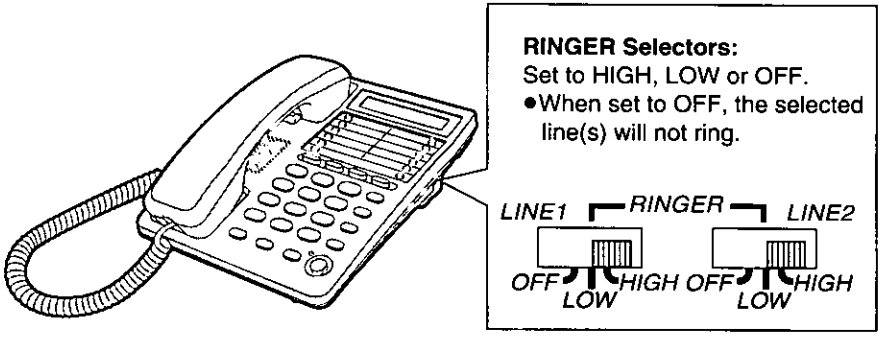


4 Press [1] to [4].
- Each time you press a button, the level will change on the display.

5 Press [PROGRAM].
- A long beep sounds.
- The unit will return to the standby mode.

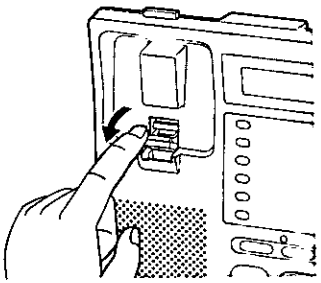
Ringer Volume

You can select the ringer volume of each line to HIGH, LOW or OFF. Your phone comes from the factory set to HIGH.



Wall Mounting

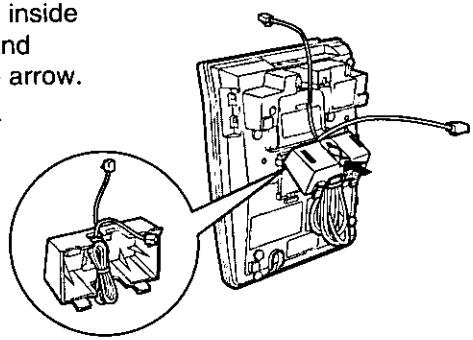
The unit can be mounted on a wall phone plate.



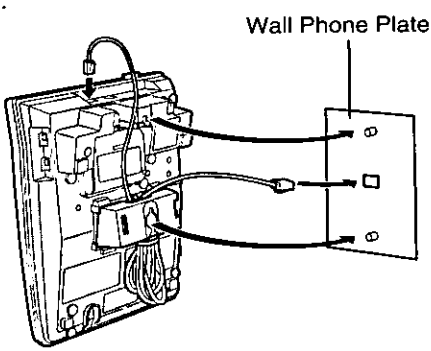
1 Pull down the handset hook until it locks, **so the tab holds the handset.**

2 Tuck the telephone line cord inside the wall mounting adaptor, and push it in the direction of the arrow.

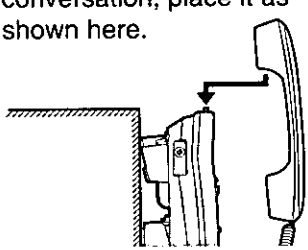
- "UP" should be facing upward.



3 Connect the telephone line cord. Mount the unit, and slide down.

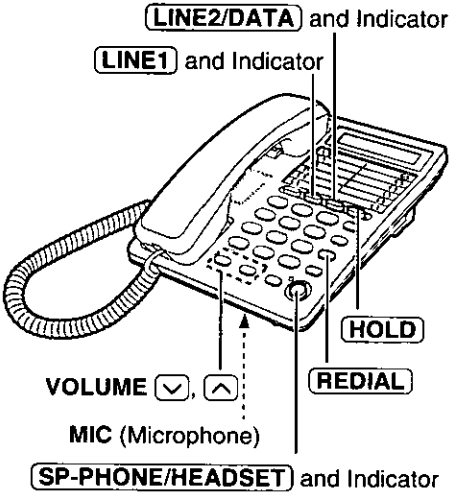


To temporarily set the handset down during a conversation, place it as shown here.



Making Calls

Using the handset



1 Press LINE1 or LINE2/DATA to select a telephone line.

2 Lift the handset.
- The line indicator lights red.

3 Dial a phone number.
- The dialed number is displayed.
- After a few seconds, the display will show the length of the call.
- If you misdial, hang up and start again from step 1.

4 To hang up, place the handset on the cradle.
- The line indicator light goes out.
- The display will return to the standby mode.

Using the speakerphone

1 Press LINE1 or LINE2/DATA to select a telephone line.

2 Press SP-PHONE/HEADSET.
- The line indicator lights red and the SP-PHONE/HEADSET indicator lights.

3 Dial a phone number.
- The dialed number is displayed.
- After a few seconds, the display will show the length of the call.
- If you misdial, press SP-PHONE/HEADSET and start again from step 1.

4 When the other party answers, talk into the **MIC** (microphone).

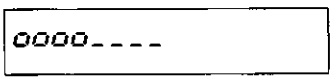
5 To hang up, press SP-PHONE/HEADSET.
- The indicator light goes out.
- The display will return to the standby mode.

- Be sure that the CONF (Conference) button is released.
- If the LINE2/DATA jack is connected to a communication device (p. 12) and the LINE2/DATA indicator lights red, the communication device is in use. Use LINE1 to make or answer other calls. Otherwise the communication device may not operate properly.

To adjust the handset volume (4 levels) or the speaker volume (8 levels) while talking

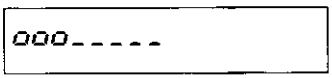
To increase, press **VOLUME** (^). To decrease, press **VOLUME** (v).

Ex. Handset volume level: 2



- One level of the handset volume is shown by "▯▯".
- The display shows the volume level for a few seconds.

Ex. Speaker volume level: 3



- One level of the speaker volume is shown by "▯".
- The display shows the volume level for a few seconds.

To redial the last number dialed

Press **LINE1** or **LINE2/DATA** ➡
➡ lift the handset or press **SP-PHONE/HEADSET** ➡ press **REDIAL**.

To put a call on hold

Press **HOLD**.

- The line indicator lights green.
- If using the handset, you can place it on the cradle.

To release the hold

Press the line button ➡ lift the handset or press **SP-PHONE/HEADSET**.

- If another phone is connected on the same line, you can also release the hold by lifting its handset.

During speakerphone operation
For best performance, please note the following:

- Talk alternately with the other party in a quiet room.
- If the other party has difficulty hearing you, press **VOLUME** (v) to decrease the speaker volume.
- You can switch to the handset by lifting it up. To switch back to the speakerphone, press **SP-PHONE/HEADSET**.

What the line indicator means

Off	The line is free.
On (red)	You are using the line or someone else is using the line on a parallel connected telephone.
On (green)	A call is on hold.
Flashing (red)	A call is being received.

Answering Calls

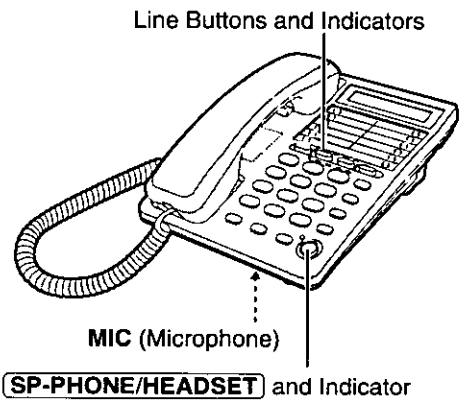
While a call is being received, the unit rings and the called line indicator flashes red.

Using the handset

1 Press the line button whose indicator is flashing.

2 Lift the handset.
- The line indicator lights red.

3 To hang up, place the handset on the cradle.
- The indicator light goes out.



Using the speakerphone

1 Press the line button whose indicator is flashing.

2 Press SP-PHONE/HEADSET.
- The line indicator lights red and the SP-PHONE/HEADSET indicator light.

3 Talk into the **MIC** (microphone).

4 To hang up, press SP-PHONE/HEADSET.
- The indicator lights go out.

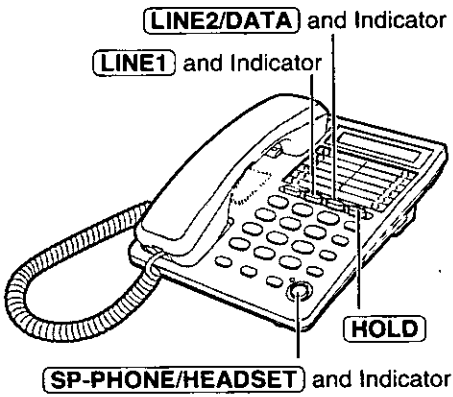
- When the RINGER selector(s) is/are set to OFF (p. 16), the selected line(s) will not ring.
- Be sure that the CONF (Conference) button is released.

Using the Other Line During a Conversation

During a conversation, if the other line indicator flashes red, an incoming call is being received on the line. You can answer the second call while holding the first call. You can also make a call without terminating the first call.

Ex: If you are using LINE1

1 Press HOLD to put the first call (LINE1) on hold.
- The LINE1 indicator lights green.
- If you are using the handset, place it on the cradle.



2 Press the other line button (LINE2/DATA) and either lift the handset or press SP-PHONE/HEADSET to make or answer a second call.
- The LINE2/DATA indicator lights red.

3 To return to the first call (LINE1), press the line button for the first call (LINE1).
- The second call is terminated.

- To hold the second call in step 3, press HOLD before pressing the line button for the first call and either lift the handset or press SP-PHONE/HEADSET.

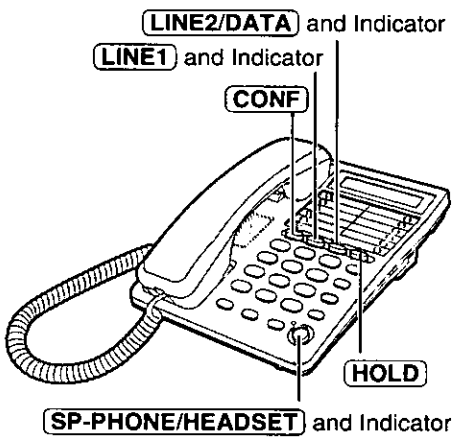
Conference Call

While having a conversation on one line, you can make or answer a second call on the other line and then combine both calls together to make a conference call.

Ex: If you are using LINE 1

1 Press HOLD to put the first call (LINE1) on hold.
- The LINE 1 indicator lights green.
- If you are using the handset, place it on the cradle.

2 Press the other line button (LINE2/DATA) and either lift the handset or press SP-PHONE/HEADSET to make or answer a second call.
- The LINE2/DATA indicator lights red.

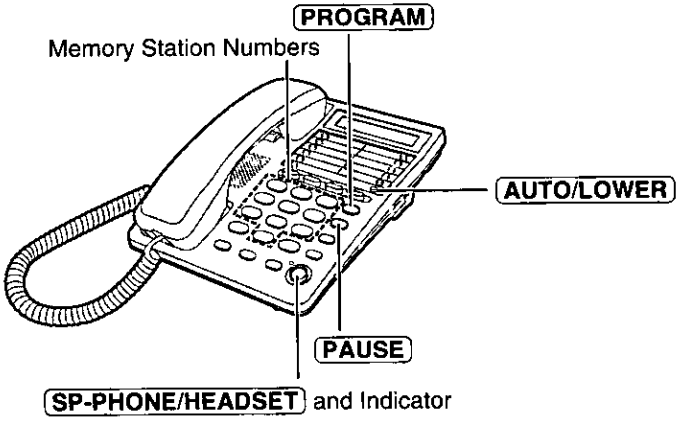


3 When the second call is connected, press CONF to make a conference call.
- Both line indicators light red.

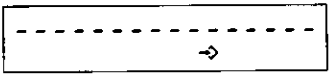
During a conference call:
- **To hang up both lines**, place the handset on the cradle or press SP-PHONE/HEADSET. Then press CONF.
- **To hang up only one line**, press the line button you want to continue talking with, then press CONF.

Storing Phone Numbers

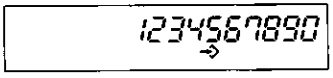
You can store up to 10 phone numbers in memory. The dialing buttons (0 to 9) function as memory stations. Do not press any memory stations before storing to prevent misoperation.



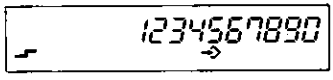
1 Press **PROGRAM**.



2 Enter a phone number, up to 22 digits.
- If you enter a wrong number, press **PROGRAM** and start again from step 1.



3 Press **AUTO/LOWER**.

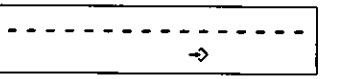


4 Press a memory station number (0 to 9).
- A long beep sounds.
- The unit will return to the standby mode.
- If 3 beeps sound, the number entered in step 2 may be over 22 digits. Lift the handset and place it on the cradle to return to the standby mode, and start again from step 1.

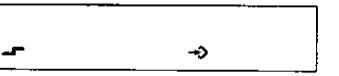
- You can exit the programming mode in step 1 and 2 by pressing **PROGRAM**.
- If a pause is required for dialing, press **PAUSE** where needed. Pressing **PAUSE** counts as one digit (p. 29).

To erase a stored number

1 Press [PROGRAM].



2 Press [AUTO/LOWER].



3 Press a memory station number ([0] to [9]) for the phone number to be erased.

- A long beep sounds.
- The unit will return to the standby mode.

Dialing a Stored Number

1 Press [LINE1] or [LINE2/DATA] to select a telephone line.

2 Lift the handset or press [SP-PHONE/HEADSET].

3 Press [AUTO/LOWER].

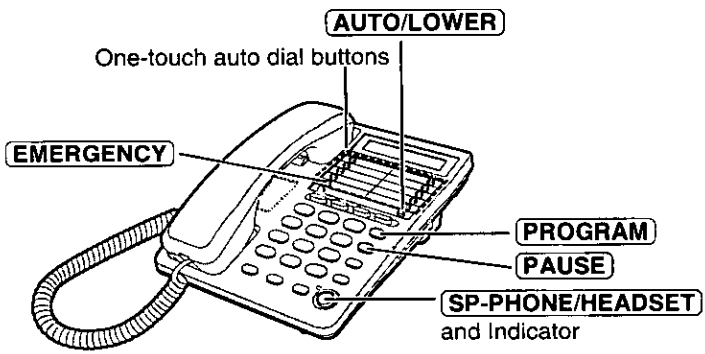
4 Press the memory station number ([0] to [9]).

- The stored number is displayed and dialed.

Storing Phone Numbers

You can store up to 20 phone numbers in the one-touch auto dial buttons (10 numbers in UPPER memory locations, 10 numbers in LOWER memory locations).

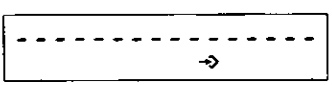
Do not press any one-touch auto dial buttons before storing to prevent misoperation.



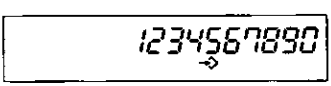
To store in an UPPER memory location

It is recommended that you program an emergency number in the EMERGENCY button.

1 Press **PROGRAM**.



2 Enter a phone number, up to 22 digits.
- If you enter a wrong number, press **PROGRAM** and start again from step 1.

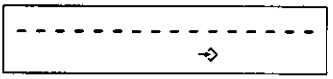


3 Press one of the one-touch auto dial buttons.
- A long beep sounds.
- The unit will return to the standby mode.
- If 3 beeps sound, the number entered in step 2 may be over 22 digits. Press **PROGRAM** to return to the standby mode, and start again from step 1.

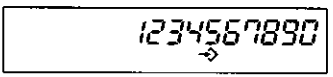
- If a pause is required for dialing, press **PAUSE** where needed. Pressing **PAUSE** counts as one digit (p. 29).
- When using the Dial Lock (p. 32) or Call Restriction feature (p. 33), you cannot store a phone number in the EMERGENCY button.

To store in a LOWER memory location

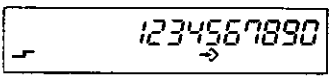
1 Press PROGRAM.



2 Enter a phone number, up to 22 digits.
- If you enter a wrong number, press PROGRAM and start again from step 1.



3 Press AUTO/LOWER.

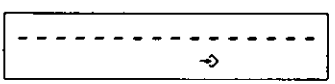


4 Press one of the one-touch auto dial buttons.
- A long beep sounds.
- The unit will return to the standby mode.
- If 3 beeps sound, the number entered in step 2 may be over 22 digits. Lift the handset and place it on the cradle to return to the standby mode, and start again from step 1.

- If a pause is required for dialing, press PAUSE where needed. Pressing PAUSE counts as one digit (p. 29).

To erase a stored number

1 Press PROGRAM.



2 If the phone number is in an UPPER memory location, press the one-touch auto dial button for the phone number to be erased.
OR
If the phone number is in a LOWER memory location, press AUTO/LOWER, then press the one-touch auto dial button for the phone number to be erased.
- A long beep sounds.
- The unit will return to the standby mode.

- When using the Dial Lock (p. 32) or Call Restriction feature (p. 33), you cannot erase a phone number in the EMERGENCY button.

Dialing a Stored Number

From an UPPER memory location:

1 Press [LINE1] or [LINE2/DATA] to select a telephone line.

2 Lift the handset or press [SP-PHONE/HEADSET].

3 Press the required one-touch auto dial button.
- The stored number is displayed and dialed.

OR

From a LOWER memory location:

1 Press [LINE1] or [LINE2/DATA] to select a telephone line.

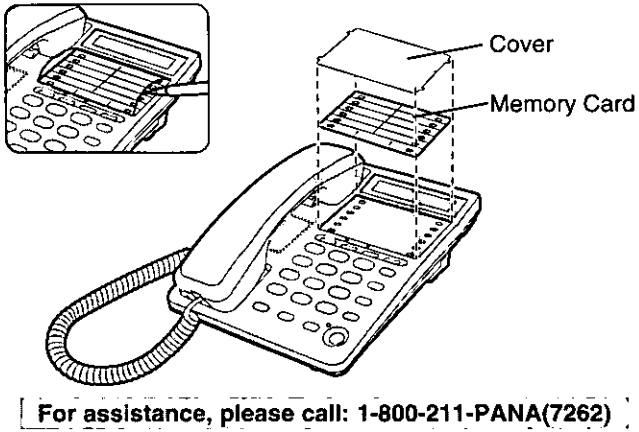
2 Lift the handset or press [SP-PHONE/HEADSET].

3 Press [AUTO/LOWER].

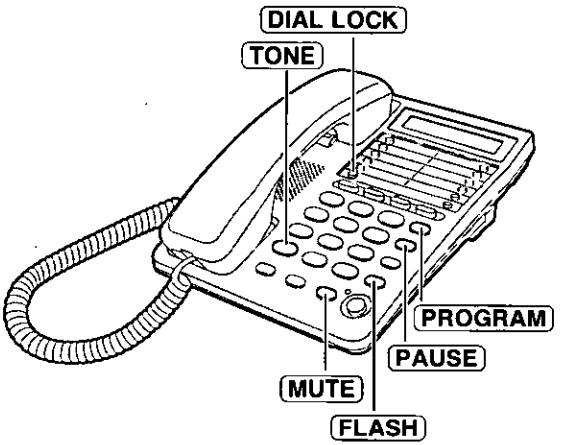
4 Press the required one-touch auto dial button.
- The stored number is displayed and dialed.

Memory card

Remove the memory card and use it as a name or phone number index for the stored numbers.



Special Features



For Call Waiting Service Users

Press FLASH if you hear a call-waiting tone while talking.

- The first call is put on hold and you can answer the second call.
- "F" is displayed.
- To return to the first caller, press FLASH again.
- If this function does not operate properly, consult your telephone company.

Temporary Tone Dialing
(For Rotary or Pulse Service Users)

Press TONE before entering access numbers which require tone dialing.

- "↳" is displayed.
- The dialing mode changes to tone. You can enter numbers to access an answering service, electronic banking service, etc. When you hang up, the mode will return to pulse.

How to Use the PAUSE Button
(For Analog PBX Line/Long Distance Service Users)

We recommend you press PAUSE if a pause is required for dialing with a PBX or to access a long distance service.

Ex. Line access number 9 (PBX)

9 ➡ PAUSE ➡ Phone number

- Pressing PAUSE once creates a few seconds pause.
  This prevents misdialing when you redial or dial a stored number.
- Pressing PAUSE more than once increases the length of the pause between numbers.

Muting Your Conversation

Press MUTE while talking.

- "⊠" is displayed.
- The other party cannot hear you but you can hear them.
- To resume the conversation, press MUTE again.

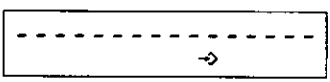
FLASH Button

Pressing [FLASH] allows you to use special features of your host PBX such as transferring an extension call or accessing special telephone services (optional) such as call waiting.

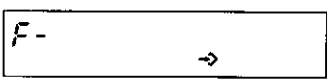
Selecting the flash time

The flash time depends on your telephone exchange or host PBX. You can select the following flash times: "80, 90, 100, 110, 200, 250, 300, 400, 600, 700 ms (milliseconds)". Your phone comes from the factory set to "600 ms".

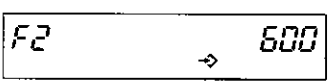
1 Press [PROGRAM].



2 Press [MUTE].



3 Press [2].
- The current setting is displayed.



4 Press a dialing button ([1] to [0]).

[1] : 80 ms [2] : 90 ms [3] : 100 ms [4] : 110 ms
[5] : 200 ms [6] : 250 ms [7] : 300 ms [8] : 400 ms
[9] : 600 ms [0] : 700 ms

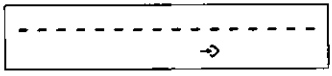
5 Press [PROGRAM].
- A long beep sounds.
- The unit will return to the standby mode.

- If the unit is connected via a PBX, you may not use PBX functions (transferring a call, etc.) properly. Consult your PBX supplier for the correct setting.

PIN Code

A 4-digit PIN Code (Personal Identification Number) prevents unauthorized persons from using your unit. The PIN Code is required for the dial lock and call restriction to be set or canceled. The factory preset PIN code is "**1111**".

1 Press **PROGRAM**.



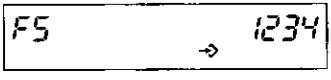
2 Press **MUTE**.

3 Press **5**.

4 Enter the current PIN code.
(Ex. "1111" is entered.)

5 Press **PROGRAM**.
- If a correct PIN code is entered, a beep will sound.
- If a wrong PIN code is entered, 3 beeps will sound. Enter the correct PIN code and press **PROGRAM**.
- To return to the standby mode, lift the handset and hang up.

6 Enter a new PIN code using a 4-digit number.
(Ex. "1234" is entered.)



7 Press **PROGRAM**.
- A long beep sounds.
- The unit will return to the standby mode.

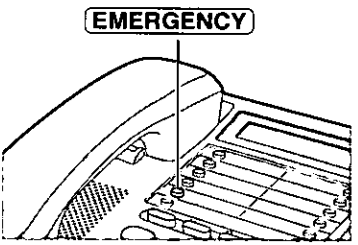
Please write down your PIN code. If you forget your PIN code, consult your nearest Panasonic service center.

Dial Lock

You can prevent others from making a call to any number except the one pre-programmed in the memory of the EMERGENCY button. Once you locked the dialing buttons, even emergency numbers cannot be dialed. Only incoming calls are accepted until the dial lock is canceled.

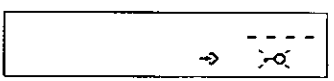
Before using this feature, we recommend storing an emergency number in the memory of the EMERGENCY button (p. 25). Even if the dialing buttons are locked, the number stored in the button can be dialed.

- If you choose not to program emergency numbers, but plan to use the dial lock, any number programmed into the EMERGENCY button can be accessed.



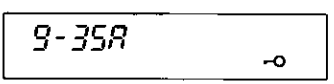
To set the dial lock

1 Press [DIAL LOCK].
- "⊶" flashes on the display.



2 Enter the PIN code (p. 31).

3 Press [PROGRAM].
- "⊶" is displayed.
- A long beep sounds.
- If a wrong PIN code is entered, 3 beeps will sound. Enter a correct PIN code and press [PROGRAM].
- The unit will return to the standby mode.



You can use the following features while the dialing buttons are locked.
- Dialing a number you programmed into the memory of the EMERGENCY button (p. 27)
- Adjusting the handset and speakerphone volumes (p. 19)
- Muting the conversation (p. 29)
- Answering the second call by pressing [FLASH] (p. 28)

To cancel the dial lock

Follow steps 1 through 3 above again.

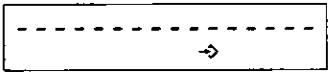
- "⊶" will disappear, and the unit will return to the standby mode.

Call Restriction

You can prevent the unit from dialing phone numbers beginning with specified digit(s) (1 digit or 2 digits). Phone numbers with the restricted leading digits cannot be dialed out.

To set the call restriction

1 Press **PROGRAM**.



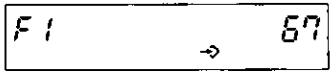
2 Press **MUTE**.

3 Press 1.

- If you use "1111" as a PIN code (factory set), the display on the right will be shown. There is no need to enter a PIN code. Go to step 6.
- After the PIN code is changed, "– – – –" will be displayed.

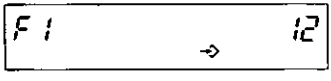
4 Enter the PIN code (p. 31).
(Ex. Your PIN code is "1234".)

5 Press **PROGRAM**.



- If a wrong PIN code is entered, 3 beeps will sound. Enter a correct PIN code and press **PROGRAM**.
- The current setting is displayed. (Ex. "67" is entered as the restricted digits.)

6 Enter the number(s) (1 digit or 2 digits) you want to restrict (0 to 9). (Ex. "12" is entered as the restricted digits.)



- If you enter a wrong number, enter a correct number.
- To change restricted digits from 2 digits to 1 digit, press * for 2 digits to change to "– –" and enter 1 digit.

7 Press **PROGRAM**.

- A long beep sounds.
- The unit will return to the standby mode.

- If your unit is connected to a PBX, this function may not operate. Contact your PBX supplier for more information.

When dialing a phone number with the restricted leading digit(s), the dialed number will flash on the display, but not dialed out.

To cancel the call restriction

Follow steps 1 through 5 on page 33. In step 6 on page 33, press (*) to cancel call restriction ("– –" is displayed) and press (PROGRAM).

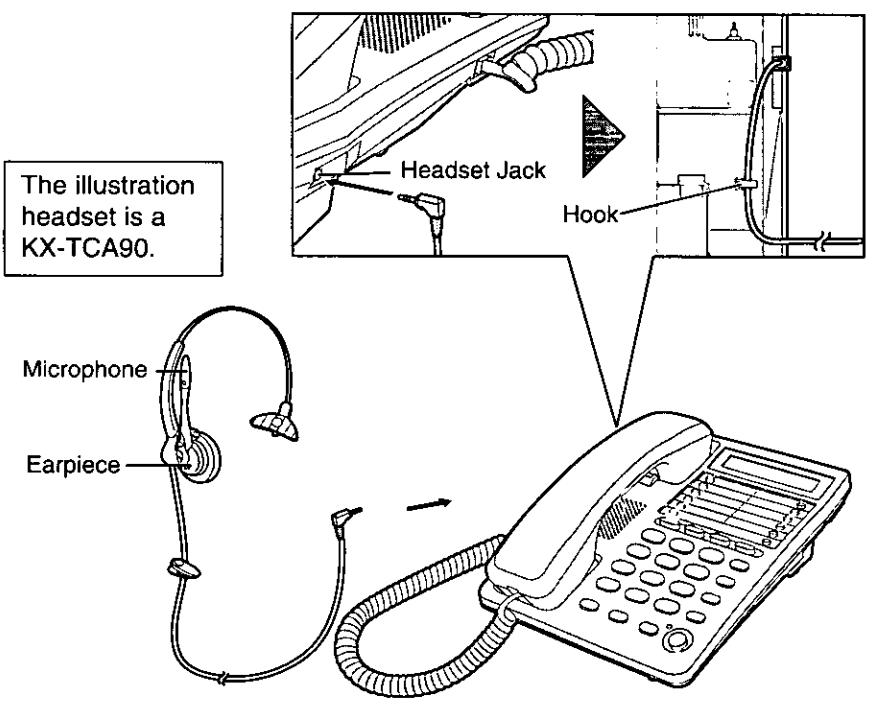
- A long beep will sound and the unit will return to the standby mode.

Optional Headset

Plugging an optional headset into the unit allows a hands-free phone conversation. Please use only a Panasonic KX-TCA87 or KX-TCA90 headset. To order, call the accessories telephone number on page 3.

Connecting an Optional Headset to the Unit

Connect an optional headset to the headset jack as shown below.

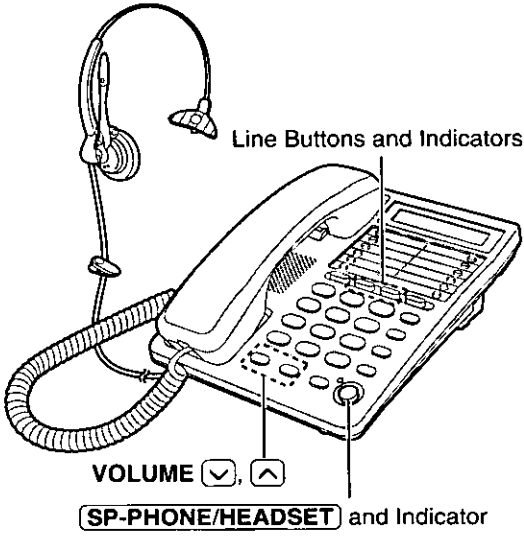


The illustration headset is a KX-TCA90.

If you want to have a normal conversation, disconnect the headset.

Making/Answering Calls

Make sure to install the batteries.



1 Press the line button to select the telephone line.

2 Press SP-PHONE/HEADSET to make or answer a call.
- The line indicator lights red and SP-PHONE/HEADSET indicator flashes.
- If you misdial when making a call, press SP-PHONE/HEADSET twice and dial again.

3 To hang up, press SP-PHONE/HEADSET.
- The indicator light goes out.

To adjust the headset receiver volume (4 levels):

While using the headset, press **VOLUME** ⌄ or ⌃.
- Be sure that the CONF button is released.
- During a conversation using the headset, you cannot switch the call to the handset by lifting it off the cradle.
- If you disconnect the optional headset during a conversation with the handset on the cradle, the call will be switched to the speakerphone.
- During a conversation using the speakerphone, you can switch the call to the headset by connecting the headset.

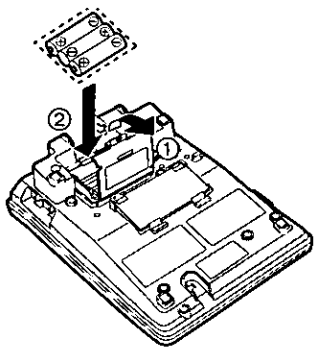
Battery Replacement

If "▭" flashes, the battery power is low. Install new batteries. Replace the batteries within 1 minute to keep the programmed settings. But the programmed time setting will be cleared.

1 Disconnect the telephone line cord from the unit.

2 Press down in the direction of the arrow and open the cover.

3 Replace the batteries with new ones using correct polarity (+, −), and close the cover.



4 Connect the telephone line cord to the unit.

- If the time is shown as "12-00" and "◴" flashes after replacing the batteries, readjust the time.

Battery Precautions:
The batteries should be used correctly, otherwise the unit may be damaged by battery leakage.
—Do not mix different types of batteries.
—Do not charge, short-circuit, disassemble, heat or dispose of in fire.
—Remove all the batteries when replacing.

Note:
—If you do not install the batteries or if the battery power is low, the time will be shown as "12-00" and "◴" will flash. Readjust the time.
—Replace all the batteries once a half year in use of Alkaline batteries, or misoperation may occur. (When you use Manganese batteries, replace all of them once in three months.)
—Do not use nickel-cadmium batteries.

Troubleshooting

Problem	Remedy
The unit does not work.	•Check the settings (p. 9–17). •Remove the batteries and reinstall them to reset the unit.
The unit does not ring.	•The RINGER selector(s) is/are set to OFF. Set to HIGH or LOW (p. 16).
The line indicators do not work properly.	•Check the settings (p. 9–17). •The batteries have become weak. Replace them with new ones (p. 36).
You cannot dial.	•Check that the dialing mode selection is correct (p. 14). •Dial lock mode is set. To cancel the mode, see page 32. •The dialed number is restricted. To cancel, see page 34.
The other party suddenly cannot hear your voice during a conversation.	•(MUTE) may have been pressed during the conversation. If "⊠" is displayed, press (MUTE).
You cannot program items such as the dialing mode.	•Do not pause for over 60 seconds while programming.
You cannot store a phone number in memory.	•Check that the batteries are installed in the unit and that the battery power is not low. •Do not enter a phone number more than 22 digits long. •When using the Dial Lock (p. 32) or Call Restriction feature (p. 33), you cannot store a phone number in the EMERGENCY button.
You cannot redial by pressing (REDIAL).	•If the last number dialed was more than 32 digits long, the number will not be redialed correctly.

Troubleshooting

Problem	Remedy
Previously programmed information is erased.	• If the batteries installed in the unit expire, programmed information may be erased. After the batteries are replaced, reprogram if necessary.
If you cannot solve your problem	• Call our customer call center at 1-800-211-PANA(7262). • Panasonic's e-mail address for customer inquiries: consumerproducts@panasonic.com for customers in the USA or Puerto Rico ONLY

Important Safety Instructions

When using this unit, basic safety precautions should always be followed to reduce the risk of fire, electric shock, or personal injury.

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on this unit.
3. Unplug this unit from wall outlets before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this unit near water, for example, near a bathtub, washbowl, kitchen sink, or the like.
5. Place this unit securely on a stable surface. Serious damage and/or injury may result if the unit falls.
6. Do not cover slots and openings on the unit. They are provided for ventilation and protection against overheating. Never place the unit near radiators, or in a place where proper ventilation is not provided.
7. Do not place objects on the power cord. Install the unit where no one can step or trip on the cord.
8. Do not overload wall outlets and extension cord. This can result in the risk of fire or electric shock.
9. Never push any objects through slots in this unit. This may result in the risk of fire or electric shock. Never spill any liquid on the unit.
10. To reduce the risk of electric shock, do not disassemble this unit. Take the unit to an authorized servicenter when service is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the unit is subsequently used.
11. Unplug this unit from the wall outlet and refer servicing to an authorized servicenter when the following conditions occur:
    A. When the power supply cord or plug is damaged or frayed.
    B. If liquid has been spilled into the unit.
    C. If the unit has been exposed to rain or water.
    D. If the unit does not work normally by following the operating instructions. Adjust only controls covered by the operating instructions. Improper adjustment may require extensive work by an authorized servicenter.
    E. If the unit has been dropped or physically damaged.
    F. If the unit exhibits a distinct change in performance.
12. During thunderstorms, avoid using telephones except cordless types. There may be a remote risk of an electric shock from lightning.
13. Do not use this unit to report a gas leak, when in the vicinity of the leak.

SAVE THESE INSTRUCTIONS

Important Safety Instructions

WARNING:
TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR ANY TYPE OF MOISTURE.

CAUTION:
To reduce the risk of fire or injury to persons, read and follow these instructions.

1. Use only the battery(ies) specified.
2. Do not dispose of the battery(ies) in a fire. It (they) may explode. Check with local waste management codes for special disposal instructions.
3. Do not open or mutilate the battery(ies). Released electrolyte is corrosive and may cause burns or injury to the eyes or skin. The electrolyte may be toxic if swallowed.
4. Exercise care in handling the battery(ies) in order not to short the battery(ies) to conductive materials such as rings, bracelets, and keys. The battery(ies) and/or conductor may overheat and cause burns.
5. Do not recharge the battery(ies) provided with or identified for use with this product. The battery(ies) may leak corrosive electrolyte or explode.
6. Do not attempt to rejuvenate the battery(ies) provided with or identified for use with this product by heating. Sudden release of battery electrolyte may occur causing burns or irritation to the eyes or skin.
7. Replace all batteries at the same time. Mixing fresh and discharged batteries could increase internal cell pressure and rupture the discharged batteries. (Applies to products employing more than one separately replaceable primary battery.)
8. When installing batteries observe the proper polarity or direction. Incorrect installation can cause charging, and may result in leakage or explosion. (Applies to products employing more than one separately replaceable primary battery.)
9. Remove the battery(ies) from this product if the product will not be used for a long period of time (several months or more). During this time the battery(ies) could leak in the product.
10. Discard the "dead" battery(ies) as soon as possible. The "dead" battery(ies) may leak in the product.
11. Do not store this product, or the battery(ies) provided with or identified for use with this product, in high temperature areas. Batteries that are stored in a freezer or refrigerator for the purpose of extending shelf life should be protected from condensation during storage and defrosting. Batteries should be stabilized at room temperature prior to use after cold storage.

FCC and Other Information

If requested by the telephone company, inform them as follows:
Registration No. . . . . .(found on the bottom of the unit)
Ringer Equivalence 1.0B
The particular telephone lines to which the equipment is connected.

This unit must not be connected to a coin operated line.
If you are on a party line, check with your local telephone company.

Ringer Equivalence No. (REN):
The REN is useful in determining the quantity of devices you may connect to your telephone line and still have all of those devices ring when your telephone number is called. In most, but not all areas, the sum of the REN's of all devices connected to one line should not exceed five (5.0). To be certain of the number of devices you may connect to your line, as determined by the REN, you should contact your local telephone company to determine the maximum REN for your calling area.

In the event terminal equipment causes harm to the telephone network, the telephone company should notify the customer, if possible, that service may be stopped.

However, where prior notice is impractical, the company may temporarily cease service providing that they:
(a) Promptly notify the customer.
(b) Give the customer an opportunity to correct the problem with their equipment.
(c) Inform the customer of the right to bring a complaint to the Federal Communication Commission pursuant to procedures set out in FCC Rules and Regulations Subpart E of Part 68.

The Telephone Company may make changes in its communications facilities, equipment, operations or procedures, where such action is reasonably required in the operation of its business and is not inconsistent with the rules and regulations in 47 CFR Part 68.

If such changes can be reasonably expected to render any customer terminal equipment incompatible with telephone company communications facilities, or require modification or alteration of such terminal equipment, or otherwise materially affect its use or performance, the customer shall be given adequate notice in writing, to allow the customer an opportunity to maintain uninterrupted service.

When programming emergency numbers and/or making test calls to emergency numbers:
1. Remain on the line and briefly explain to the dispatcher the reason for the call before hanging up.
2. Perform such activities in the off-peak hours, such as early morning hours or late evenings.

FCC and Other Information

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION:
Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

Note:
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
—Reorient or relocate the receiving antenna.
—Increase the separation between the equipment and receiver.
—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
—Consult the dealer or an experienced radio/TV technician for help.

This equipment is hearing aid compatible.

A TIA/EIA-IS-968 compliant telephone cord and modular plug is provided with this equipment. This equipment is designed to be connected to the telephone network or premises wiring using a compatible modular jack that is also TIA/EIA-IS-968 compliant.

- **Environment**—do not place the unit in a room where the temperature is less than 5°C (41°F) or greater than 40°C (104°F). Allow 10 cm (4″) clearance around the unit for proper ventilation. Avoid excessive smoke, dust, mechanical vibration, shock, or direct sunlight.
- **Routine care**—wipe the unit with a soft cloth. Do not use benzine, thinner, or any abrasive powder.
- **If there is any trouble**—disconnect the unit from the telephone line and connect a known working phone. If the known working phone operates properly, have your unit repaired by one of the authorized Panasonic Factory Service Centers. If the known working phone does not operate properly, consult your telephone company.

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For product service

- Call 1-800-211-PANA(7262) or 1-800-833-9626 for the location of an authorized servicenter.
- Panasonic's e-mail address for customer inquiries:
  consumerproducts@panasonic.com
  for customers in the USA or Puerto Rico ONLY

When you ship the product

- Carefully pack your unit, preferably in the original carton.
- Attach a letter, detailing the symptom, to the outside of the carton.

Symptom

- Send the unit to an authorized servicenter, prepaid and adequately insured.
- Do not send your unit to the Panasonic Consumer Electronics Company listed below or to executive or regional sales offices. These locations do not repair consumer products.

If you need assistance with the set-up or operation, please call 1-800-211-PANA(7262)

Panasonic Consumer Electronics Company,
Division of Matsushita Electric Corporation of America
One Panasonic Way, Secaucus, New Jersey 07094

Panasonic Sales Company,
Division of Matsushita Electric of Puerto Rico, Inc.
Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park
Carolina, Puerto Rico 00985

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